



Toshiba IP Video Monitoring/Surveillance Cameras

IP NETWORK CAMERAS



ANALOG CAMERAS




CAMERA MODEL	IK-WB02A	WB02-KIT-3-8	IK-WD01A	IK-WR01A	IK-WB21A	IK-WB15A	IK-6210A	IK-6420A	IK-6550A	IK-64DNA	IK-65WDA
Image sensor	1/3" IT CCD	1/3" IT CCD	1/4" IT CMOS	1/3" IT CCD	1/4 Super CCD	1/4 Super CCD	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD (IR)	1/3" IT CCD
Maximum resolution	640 x 480	640 x 480	640 x 480	640 x 480	1280 x 960	1280 x 960	350 TV Lines	540 TV Lines	540 TV Lines	570 TV Lines (B/W), 480 (C)	520 TV Lines
Minimum illumination	0.2 lux @ F=1.0	0.2 lux @ F=1.0	0.1 lux @ F=1.4	0.2 lux @ F=1.0	0.13 lux @ F=1.6	0.18 lux @ F=1.9	0.2 lux @ F=1.0	0.2 lux @ F=1.0	0.2 lux @ F=1.2	0.003 (B/W), 0.1 (C) @ F=1.2	0.001 lux @ F=1.2
Compression	Motion JPEG	Motion JPEG	Dual MPEG-4/JPEG	Motion JPEG	Motion JPEG	Motion JPEG	--	--	--	--	--
Frames per second	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	--	--	--	--	--
Lens	not included	2.9-8.0mm AI	Varifocal 2.0-4.0mm	3.0mm to 8.0mm	4.00mm to 88mm	2.8mm to 7.3mm Varifocal	not included	not included	not included	not included	not included
Zoom	--	Manual (2.75x optical)	2X optical, 4x digital	Manual (2.6x optical)	22x optical	2.6x optical	--	--	--	--	--
Lens changeable	CS-Mount	CS-Mount	na	CS-Mount	No	No	CS-Mount	CS-Mount	CS-Mount	CS-Mount	CS-Mount
Ethernet network	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	--	--	--	--	--
Power over Ethernet	802.3af	802.3af	802.3af	802.3af	--	802.3af	--	--	--	--	--
Auto white balance (AWB)	Yes	Yes	Yes	Yes	Normal/ wide	Normal/ wide	Yes	Yes	Yes	Yes	Yes
AWB range	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	--	--	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K
Synchronization system	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	--	--	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock
Day/night imaging	Yes	Yes	--	--	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sharpness	--	--	--	--	Sharp/Standard/Off	Yes	--	--	Low/Mid/High	--	Low/Mid/High
Color gain	--	--	--	--	Yes	Yes	--	--	--	--	--
Digital noise reduction	--	--	--	--	--	Yes	Yes	Yes	Yes	--	Yes
Automatic gain control	--	--	Yes	--	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pan	--	--	±175°	Manual	350°	112°	--	--	--	--	--
Tilt	--	--	+85° to -35°	Manual	60°	54°	--	--	--	--	--
Optional external memory	SD card	SD card	--	--	SD card	SD card	--	--	--	--	--
Motion detection	Yes	Yes	Yes	Yes	Yes	Yes	--	--	--	--	--
Backlight compensation	Yes, Selectable	Yes, Selectable	Yes, Selectable	Yes, Selectable	Yes, selectable	Yes, selectable	Yes	Yes	Yes	Yes	Wide Dynamic (6 mode)
Audio	Mic in/ Line out	Mic in/ Line out	Mic in/ Line out	--	Mic in/ Line out	Mic in/ Line out	--	--	--	--	--
Alarm I/O	Yes	Yes	Yes (email, FTP)	--	Yes	Yes	--	--	--	--	--
Hybrid camera	IP and analog	IP and analog	--	IP and analog	--	--	--	--	--	--	--
Power	PoE, 24V AC & 12 V DC	PoE, 24V AC & 12 V DC	PoE, 12 V DC	PoE, 24V AC & 12 V DC	12 V DC	PoE, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC
Power consumption	3 watts	3 watts	3.6 watts	4 Watts	10 Watts	10 Watts	4.5 Watts	4.5 Watts	4.5 Watts	4.5 Watts	4.5 Watts
Environmental rating	--	--	--	IP66	--	IPX3	--	--	--	--	--
Safety standard	UL2044	UL2044	UL2044	UL2044	UL2044	UL6500/cUL	UL2044	UL2044	UL2044	UL2044	UL2044
Emission standard	FCC Class A, DOC Class A	FCC Class A, DOC Class A	FCC Class A, DOC Class A	FCC Class A	FCC Class A	FCC Class B	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A
RoHS compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Software	Camera Finder	Camera Finder	ActiveX plug-in	Camera finder	Camera finder	Camera finder	--	--	--	--	--
Operating system	Linux	Linux	Linux	Linux	Linux	Linux	--	--	--	--	--
Vandal resistant	--	--	--	Yes	--	--	--	--	--	--	--
Transformer	--	24VAC, 20 VA	--	--	12V	12V	--	--	--	--	--
Mount (included)	--	6" universal mount (indoor)	Flush or Ceiling	Flush or Ceiling	Ceiling	Wall	--	--	--	--	--
ACCESSORIES											
Outdoor enclosure	FB-3010HB	FB-3010HB	--	--	FB-3610-92-HB-C	FB-3610-93-HB-C	FB-3010HB	FB-3010HB	FB-3010HB	FB-3010HB	FB-3010HB
Vandal resistant enclosure	--	--	--	--	FB-3612-92-HB-C	--	--	--	--	--	--
Ceiling Enclosure (2' x 2')	--	--	--	--	FBK1609-92-C	--	--	--	--	--	--
Wall bracket	--	--	--	FSM-WR01A	FSM-WB21	--	--	--	--	--	--
Wall mount	FSM-3009	FSM-3009	--	--	FSM-3610	FSM-3610	FSM-3009	FSM-3009	FSM-3009	FSM-3009	FSM-3009
Ceiling mount	FSP-3009	FSP-3009	--	--	FSP-3610	FSP-3610	FSP-3009	FSP-3009	FSP-3009	FSP-3009	FSP-3009
Pole mount	--	--	--	--	FSA-3610	FSA-3610	--	--	--	--	--
Corner mount	--	--	--	--	FSC-3610	FSC-3610	--	--	--	--	--
Parapet mount	--	--	--	--	FSRP3610 roof mount FSMP3610 wall mount FSCP3610 corner mount	FSRP3610 roof mount FSMP3610 wall mount FSCP3610 corner mount	--	--	--	--	--
Optional lens	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8LASA2L YV2.2X1.4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8LASA2L YV2.2X1.4A-SA2L	--	YV3.3x15R4A-SA2 15mm to 50mm @ F=1.5	--	--	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8LASA2L YV2.2X1.4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8LASA2L YV2.2X1.4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8LASA2L YV2.2X1.4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8LASA2L YV2.2X1.4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8LASA2L YV2.2X1.4A-SA2L



CAMERA MODEL
Image sensor
Maximum resolution
Minimum illumination
Compression
Frames per second
Lens
Zoom
Lens changeable
Ethernet network
Power over Ethernet
Auto white balance (AWB)
AWB range
Synchronization system
Day/night imaging
Sharpness
Color gain
Digital noise reduction
Automatic gain control
Pan
Tilt
Optional external memory
Motion detection
Backlight compensation
Audio
Alarm I/O
Hybrid camera
Power
Power consumption
Environmental rating
Safety standard
Emission standard
RoHS compliant
Software
Operating system
Vandal resistant
Transformer
Mount (included)
ACCESSORIES
Outdoor enclosure
Vandal resistant enclosure
Ceiling Enclosure (2" x 2')
Wall bracket
Wall mount
Ceiling mount
Pole mount
Corner mount
Parapet mount
Optional lens

ANALOG CAMERAS				
				
IK-1000	IK-VR01A	IK-DF02A	IK-DP30A	
1/2" EMCCD, Peltier Cooled	1/3" IT CCD	1/3" IT CCD	1/4" IT CCD	
420 TV Lines	480 TV Lines	520 TV Lines	480 TV Lines	
0.00025 lux @ F=1.2	0.2 lux @ F=1.0	0.5 lux @ F=1.0	0.01 lux @ F=1.0	
--	--	--	--	
--	--	--	--	
not included	3.0mm to 8.0mm	Verifocal 2.8mm to 10mm	4.1mm to 73.8mm	
--	Manual (2.6x optical)	Manual (3.5x optical)	18x Optical, 12X Digital	
C-Mount	CS-Mount	--	--	
--	--	--	--	
--	--	--	--	
Yes	Yes	Yes	Yes	
--	2500° K to 10000° K	2500 K to 10000° K	3000 K to 7500° K	
Internal	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	
Yes (Color)	Yes	Yes	Yes	
--	--	--	--	
--	--	--	--	
Adaptive Recursive (pixel comparison)	--	Yes	--	
Yes	--	Yes	Yes	
--	Manual	Manual 350°	360° Continuous	
--	Manual	Manual 146°	92°	
--	--	--	--	
--	--	--	--	
7 Mode, 16 Area Photometry	Yes	Yes	Yes	
--	--	--	--	
--	--	--	--	
12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC	
6W (77° F), 12W (104° F)	4 Watts	3.5 Watts	35 Watts	
--	IP66	--	--	
UL2044	UL2044	UL2044	UL2044	
FCC Class A	FCC Class A	FCC Class A	FCC Class A	
--	Yes	Yes	Yes	
--	--	--	--	
--	--	--	--	
12V (optional)	--	--	--	
--	Flush or Ceiling	Flush	--	
FB-2811, FB-2816, FB-2820	--	--	JK-PHI/JK-PHO-S	
--	--	--	JK-RPHI/JK-RPHO	
--	--	--	JK-CTA (requires JK-H01A)	
--	FSM-WR01A	--	--	
--	--	--	JK-WM	
--	--	--	JK-H01A	
--	--	--	JK-PMA	
--	--	--	JK-CMA	
--	--	--	JK-PM	
--	YV3.3x15R4A-SA2 15mm to 50mm @ F=1.5	--	--	

Toshiba Software




- Designed for non-proprietary hardware and IT infrastructures
- Record up to 16 IP-based cameras
- Cameras need not be onsite to record
- Cost-effective solution to traditional DVRs
- Records image resolutions as high as the IP Camera supports
- Complete remote management; Setup control, user administration, video backup, live viewing, and search capabilities

SW-IP NETWORK VIDEO RECORDING SOFTWARE

	8 Channel	16 Channel
REQUIREMENTS		
Processor	Pentium D	Pentium D
Memory	512 MB DDR	1 GB DDR
Memory (w/POS)*	1 GB DDR	1 GB DDR
Storage space	based on video retention needs	
Video card	8x 128 MB VGA	8x 128 MB VGA
Video output	SVGA Monitor	SVGA Monitor
Network connection	100 MB	1000 MB
Operating system	Windows XP® or 2003 Server®	
Removable storage	CD-RW, DVD-RW, 3.5" Floppy Drive	
Audio output	Microsoft compatible sound card and speakers	
SOFTWARE		
Video input	8 Network Cameras	16 Network Cameras
Recording rate	Up to 480 PPS	Up to 480 PPS
PTZ control	Yes	Yes
Image sizes	Determined By IP Camera	Determined By IP Camera
Password control	User Defined	User Defined
Upgradeable	1 Channel Upgrade(s)	--

* NOTE: Minimum memory is 1GB for software if using POS devices.

SURVEILLIX POS SOFTWARE



Software provides complete record of customer, cashier and merchandise purchased with text overlaid on video. POS/ATM data is stored on Surveillix DVR for access and search using several criteria. Below is a list of POS devices that are supported by Surveillix POS software. Please regularly check for the most current list by visiting www.toshibasecurity.com.

- AVE (VSI-PRO)*
- AVE (VSSI-PRO for ATM)*
- VeriFone (Ruby/Sapphire)
- Vardells
- SIDG

- Aloha
- POSitouch
- PC Based POS (RS-232)
- HAT (Honeywell Text Inserter)
- TEC

* A Cable 078 from AVE required for POS/ATM software integration

TOSHIBA

Leading Innovation >>>

Toshiba America Information Systems, Inc.
Surveillance & IP Video Products Group
9740 Irvine Boulevard
Irvine, CA 92618 877-855-1349
www.toshibasecurity.com

Compatibility

IP CAMERAS SUPPORTED	
Toshiba	IK-WB01A, IK-WB02A, IK-WB11A, IK-WB21A, IK-WB15A, IK-WR01A
ACTi	ACTi IP Camera, ACTi+CAM models: 5301, 5321, 7201, 7301, 7321, 6510, 6610; ACTi+ACM models: 1431, 1311, 1100, 3211, 3311, 3100, 4100, 2140
Arecont Vision	AV2100, AV3131, AV1300, AV2000, AV3100, AV5100
AXIS	206, 207, 207MVV, 207W, 209FD, 209MFD, 210, 210A, 216FD, 216FD-V, 216MFD, 216MFD-V, 211, 211A, 211M, 211W, 221, 223M, 225FD, 212PTZ, 213PTZ, 214PTZ, 215PTZ, 231D+, 232D+
Brans	BNT100, BNT200
D-Link	DCS2000, 3220, 5300, 6620, 900
Honeywell	HD6i+VIP, AcuIX
Lumenera	LE175C
Mobotix	M1M
Panasonic	BB-HCM381, WV-NM100, WV-NP472
Pixord	120/126, 200/206, 261
Samsung	SCC-C6475
Securgen	NE-VS100, NE-VS104, NE-VS400
Sony	SNC-CS10, SNC-CS11, SNC-CS3N, SNC-DF40N, SNC-DF70, SNC-P1, SNC-P5, SNC-RX550, SNC-RZ25, SNC-RZ30, SNC-RZ50, SNC-Z20N, SNT-704
Vantage	VIP Series: S5301P, S5321P, S7201P, S7301P, S7321P, S6510F, S6610F, S1431EP, S1311EP, S1100E, S3211EP, S3311EP, S3100E, S4100E, S4100K
VivoTek	IP6122, FD6112V, PT7135, VS3100P
ACCESS CONTROL SUPPORTED	
CanSec	Maestro, SmartLock
Dice Systems	Aegis
DSX	WinDSX, WinDSX-SQL, DSX-Soft I/O
Galaxy	Galaxy Version 7 and Version 4
Hartmann Controls	Protector Series
Keyscan	Keyscan Management System VII, Vantage
MAXxess	AXXess, EndPoint
INTEGRATION PLATFORMS SUPPORTED	
Cernium	Percepttrak
Vidient	SmartCatch
MANAGEMENT SYSTEM SOFTWARE INTEGRATION – TOSHIBA IP CAMERAS	
Milestone	XProtect, RemoteManager
OnSSI	NetDVMS, NetDVR, NetGuard, ProSight
Genetec	Omnicast, Synergist, Autovu
ControlWare	CWare Prime
Broadware	
Strand USA	
IP Video Corp.	Dynaview
Video Protein	

For updates on compatibility please visit the Toshiba website: www.toshibasecurity.com

Video Servers



Video Server Digital Encoders and Decoders are an easy way to access video over the Internet. Take up to 4 analog cameras and stream video to a centralized server for recording.

- 1 and 4 Channel Units Available (4-ch encoder only)
- Embedded Linux operating system
- MPEG-4 Compression
- Wireless B and G with Wireless Encryption
- Pre- and Post-Alarm Recording
- Supports Dynamic IP and Dynamic DNS Addresses
- Up to 4 Sensor Inputs / Outputs
- Remote Operation and Configuration
- Up to 120 PPS Real Time Display
- Supports PAN / TILT / ZOOM Cameras
- Dual-stream Technology (Supports two simultaneous video streams)
- Compatible with most major IP device manufacturers



NE-VS100E Encoder

One Channel MPEG-4 encoder features 32 bit RISC 200 MHz CPU, 704 x 480, 352 x 240/288 resolution (PAL/NTSC), 32MB SDRAM and Flash Memory.



NE-VS104E Encoder

Four Channel MPEG-4 encoder features 32 bit RISC 200 MHz CPU, 704 x 480, 352 x 240/288 resolution (PAL/NTSC), 32MB SDRAM and Flash Memory.



NE-VS100EW (Wireless)

One Channel Wireless MPEG-4 encoder features 32 bit RISC 200 MHz CPU, 704 x 480, 352 x 240/288 resolution (PAL/NTSC), 32MB SDRAM and Flash Memory. 802.11 a/b/g 54 MBps



NE-VS104EW (Wireless)

Four Channel Wireless MPEG-4 encoder features 32 bit RISC 200 MHz CPU, 704 x 480, 352 x 240/288 resolution (PAL/NTSC), 32MB SDRAM and Flash Memory. 802.11 a/b/g 54 MBps



NE-VS100D

One Channel video decoder makes it easy to convert digital video back to analog for display on a standard security monitor, and has the ability to output via either S-Video or BNC. Features audio out, LAN connectivity, no signal detection, USB 2.0 port, NTSC/PAL, RS485 and PTZ communication. 32MB Flash and 32MB SDRAM memory.

Toshiba LCD Monitors



24 HOUR CONTINUOUS OPERATION

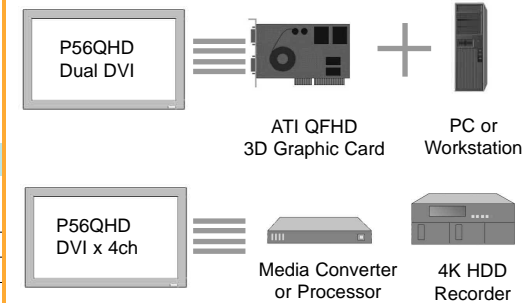
Toshiba LSA and P56QHD displays provide the reliability required to withstand 24-hour continuous operation. The long-life backlight and a rugged aluminum cabinet assures excellent heat dissipation, along with lower power consumption so the displays can work longer at a lower cost. The fanless design also enables quiet operation.

LSA SERIES MONITORS

LCD	26" (P26LSA), 32" (P32LSA), 42" (P42LSA), 47" (P46LSA), 52" (P52LSA)
LCD panel type	Super MVA TFT
Maximum resolution	26"-32": 1366 x 768, 42" - 52": 1920 x 1080
Colors (in millions)	16.77
Response time	6.5ms
Brightness	26"-47": 550cd/M ² , 52": 500cd/M ²
Contrast	26"-47": 1000:1, 52": 2000:1
Viewing angle	176° (H), 176° (V)
Power voltage	AC100-240V (±10%) 50/60 Hz
Power consumption	
Operating	<130W (26"), <150W (32"), <250W (42"), <350W (47"), <400W (52")
Stand-by	<20W (all models)
Dimensions (W x H x D inch)	P26: 26.1" x 16.18" x 3.23" P32: 31.1" x 18.9" x 3.2" P42: 40.18" x 24.15" x 4.1" P47: 45.3" x 27.25" x 4.98" P52: 50" x 29" x 5"
Weight (lbs)	P26: 33 lbs, P32: 43 lbs, P42: 77 lbs, P47: 128 lbs, P52: 131lbs
Operating temperature	41°F to 140°F
Videowall processor	Yes (up to 6 x 6)
Input connectors	
Analog RGB	D-Sub 15 pin
Digital	DVI-D
Video (composite)	RCA x 1
S-video (Y/C)	S-video DIN
Component (Y/Cb/Cr)	8 pin DIN with RCA breakout
Dual DVI	--
Control	RS232C (except P26LSA)
Input signals	
Video	NTSC, PAL
RGB	VGA, SVGA, XGA, SXGA
HDTV	480p, 720p (all models), 1080i (P42, P47, P52)
Display management	VESA DPMS/DVI DMPM
Key switch	Power, input, menu, down, up, +
Link control	RJ45 (except P26LSA)
Mount	VESA
Warranty	3 year full replacement (shipping 1 way)
Accessories	AC cord, manual, stand, remote, cables: 15-pin RGB, S-video, YCbCr, RCA, DVI-D, RGB-YcbCr
Option	HD-SDI Interface
Note 1: 26", 32" monitors support 640 x 480, 800 x 600, 1024 x 768, 1366 x 768, 1280 x 1024 (compressed), 1600 x 1200 (compressed) input. The 42", 47" and 52" support all of above, plus 1280 x 1024, 1920 x 1080 input signals. LSA monitors are RoHS compliant.	

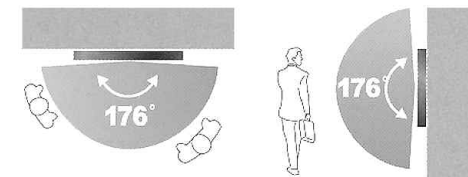
P56QHD MONITORS

LCD	P56QHD-2: 56" (Dual DVI x 2) P56QHD-4: 56" (Single DVI x 4)
LCD panel type	Super MVA TFT
Maximum resolution	3840 x 2160 (0.324 mm pixel)
Colors (in millions)	16.77
Response time	6.5ms
Brightness	500cd/M ²
Contrast	1200:1
Viewing angle	176° (H), 176° (V)
Power voltage	AC100-240V (±10%) 50/60 Hz
Power consumption	
Operating	<550W
Stand-by	<20W
Dimensions (W x H x D inch)	P56QHD-2: 52.8" x 31.4" x 5.2" P56QHD-4: 52.8" x 31.4" x 5.2"
Weight (lbs)	P56QHD-2: 154 lbs P56QHD-4: 154 lbs
Operating temperature	41°F to 140°F
Videowall processor	No
Input connectors	
Analog RGB	--
Digital	Single DVI x 4 (P56HD-4)
Video (composite)	--
S-video (Y/C)	--
Component (Y/Cb/Cr)	--
Dual DVI	Dual DVI x 2 (P56HD-2)
Control	RS232C
Input signals	
Video	NTSC, PAL
RGB	--
HDTV	1080i (x4)
Display management	VESA DPMS/DVI DMPM
Key switch	--
Link control	RJ45
Mount	VESA
Warranty	3 year
Accessories	AC cord, DVI-D cable, dual stand, manual
Option	ATI QFHD 3D Graphic Card (PCI Express x 16)
Note 1: The Dual DVI version of the P56QHD (P56QHD-2) is optimal for picture files and motion picture files. The Single DVI x 4 channel model (P56QHD-4) is for 3840 x 2160 full motion video when used with a media converter or process and HDD. P56QHS monitors are RoHS compliant.	



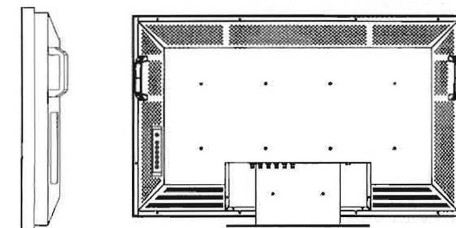
USE FOR VIDEO OR STILL IMAGE FILES

The Dual DVI version of the P56QHD (P56QHD-2) is optimal for picture files and motion picture files. The Single DVI x 4 channel model (P56QHD-4) is ideal for 3840 x 2160 full motion video when used with a media converter or process and HDD.



WIDE 176° VIEWING ANGLE

Toshiba LSA and P56QHD displays have viewing angles that are 176 degrees both vertically and horizontally, providing sharp, clear, high contrast images even viewed at a wide angle.



SLIM BODY

Toshiba displays feature a unique design that is flat and compact. The displays come with VESA mounting holes that allow use of any commercial ceiling mount or wall mount.

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Toshiba Digital Video Recorders (Windows® XP Embedded)

ANALOG RECORDERS



HYBRID RECORDER



IP RECORDERS



RECORDER MODEL

Analog Channels
IP Channels

Resolutions

720 x 480 (NTSC)
720 x 240 (NTSC)
360 x 240 (NTSC)
640 x 480 (NTSC)
640 x 240 (NTSC)
320 x 240 (NTSC)

720 x 480 (NTSC)
720 x 240 (NTSC)
360 x 240 (NTSC)
640 x 480 (NTSC)
640 x 240 (NTSC)
320 x 240 (NTSC)

720 x 480 (NTSC)
720 x 240 (NTSC)
360 x 240 (NTSC)

720 x 480 (NTSC)
720 x 240 (NTSC)
360 x 240 (NTSC)
640 x 480 (NTSC)
640 x 240 (NTSC)
320 x 240 (NTSC)

Resolutions depend upon
the IP camera resolution

Resolutions depend upon
the IP camera resolution

Video input

BNC x 4, 16

BNC x 8, 16

BNC x 8, 16, 32

BNC x 8, 16, 32

Up to 16

Up to 16

Video output

BNC x 16, SVGA x 1 (required)

BNC x 8, 16, SVGA x 1

BNC x 8, 16, SVGA x 1

BNC x 8, 16, SVGA x 1

SVGA x 1 (monitor not included)

SVGA x 1 (monitor not included)

Recording rate

CIF= 360 x 240 or 320 x 240
2CIF=720 x 240 or 640 x 240
4CIF=720 x 480 or 640 x 480

120 PPS
120 PPS=CIF
120 PPS=2CIF
120 PPS=4CIF
60 PPS
60 PPS=CIF
60 PPS=2CIF
30 PPS=4CIF

480 PPS
480 PPS=CIF 240 PPS=CIF
240 PPS=2CIF 120 PPS=2CIF
120 PPS=4CIF 60 PPS=4CIF
120 PPS
120 PPS=CIF 60 PPS=CIF
120 PPS=2CIF 60 PPS=2CIF
60 PPS=4CIF 30 PPS=4CIF

480 PPS
480 PPS=CIF
240 PPS=2CIF
120 PPS=4CIF
240 PPS
240 PPS=CIF
120 PPS=2CIF
60 PPS=4CIF

480 PPS
480 PPS=CIF 240 PPS=CIF
240 PPS=2CIF 120 PPS=2CIF
120 PPS=4CIF 60 PPS=4CIF
120 PPS
120 PPS=CIF 60 PPS=CIF
120 PPS=2CIF 60 PPS=2CIF
60 PPS=4CIF 30 PPS=4CIF

Up to 480 PPS
(30 PPS x 16 cameras)

Up to 480 PPS
(30 PPS x 16 cameras)

PTZ controls and protocols

RS-232/422/485 (75+ protocols)

RS-232/422/485 (75+ protocols)

RS-232/422/485 (75+ protocols)

RS-422/232/485 (75+ protocols)

via IP protocols

via IP protocols

Storage media

Up to 1 TB internal

Up to 2 TB internal

Up to 4 TB internal

Up to 4 TB internal

Up to 1 TB internal

Up to 4 TB internal

LAN

10/100 (1 GB Optional)

10/100 (1 GB Optional)

10/100 (1 GB Optional)

10/100 (1 GB Optional)

100/1000 MB Ethernet

100/1000 MB Ethernet

Average image size

720 x 480 = 12K
720 x 240 = 6K
360 x 240 = 4K

720 x 480 = 12K
720 x 240 = 6K
360 x 240 = 4K

720 x 480 = 12K
720 x 240 = 6K
360 x 240 = 4K

720 x 480 = 12K
720 x 240 = 6K
360 x 240 = 4K

Dependent on IP Camera

Dependent on IP Camera

Password control

User-defined access control

User-defined access control

User-defined access control

User-defined access control

User-defined access control

User-defined access control

Power interruption recovery

Automatic restart

Automatic restart

Automatic restart

Automatic restart

Automatic restart

Automatic restart

Remote connection

TCP/IP, UDP, Internet, LAN,
WAN, ISDN, PSTN

TCP/IP, UDP, Internet, LAN,
WAN, ISDN, PSTN

TCP/IP, UDP, Internet, LAN,
WAN, ISDN, PSTN

TCP/IP, UDP, Internet, LAN,
WAN, ISDN, PSTN

TCP/IP, UDP, Internet, LAN,
WAN, ISDN, PSTN

TCP/IP, UDP, Internet, LAN,
WAN, ISDN, PSTN

RAID 5 support

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Optional

Optional

Optional

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Optional

Critical recording archive

DVD/RW, LAN,
Internet (TCP/IP)

DVD/RW, LAN,
Internet (TCP/IP)

DVD/RW, LAN,
Internet (TCP/IP)

DVD/RW, LAN,
Internet (TCP/IP)

DVD/RW, LAN,
Internet (TCP/IP)

DVD/RW, LAN,
Internet (TCP/IP)

Alarm inputs/outputs

4 on 4 ch, Up to 16 on 16 ch

Up to 16 inputs/outputs

Up to 16 inputs/outputs

Up to 16 inputs/outputs

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Audio recording

4 on 4 ch, 2 on 16 ch, 16 ch optional

Up to 4, 16 ch optional

4 on 8/16 ch, 8 on 32 ch, 16 ch optional

Up to 8, 16 ch optional

1 ch

2 ch

Power input

100-240 V AC (50 Hz/60 Hz)

100-240 V AC (50 Hz/60 Hz)

100-240 V AC (50 Hz/60 Hz)

100-240 V AC (50 Hz/60 Hz)

100-240 V AC (50 Hz/60 Hz)

100-240 V AC (50 Hz/60 Hz)

Mounting rack

3U Rack Mount Chassis

4U Rack Mount Chassis

5U Rack Mount Chassis

4U and 5U Rack Mount Chassis

3U Rack Mount Chassis

4U and 5U Rack Mount Chassis

Image compression

Proprietary MJPEG

Proprietary MJPEG

Proprietary MJPEG

Proprietary MJPEG

Proprietary MJPEG

Proprietary MJPEG

RAM

512 MB

512 MB

512 MB

512 MB

1 GB

1 GB

CPU

Celeron D 3.2 Ghz

Celeron D 3.2 Ghz

Celeron D 3.2 Ghz

Celeron D 3.2Ghz, Pentium D 3.4 Ghz

Pentium D 3.4 Ghz

Pentium D 3.4 Ghz

SCS Multi-Site Software: Remotely
connect up to 100+ DVR units

Yes

Yes

Yes

Yes

Optional

Yes

Remote Software: View live video
search export and save

Yes

Yes

Yes

Yes

Yes

Yes

Emergency Agent: Installs on client
desktop, opens if alarm event occurs

Yes

Yes

Yes

Yes

Yes

Yes

MDVR: View video, control PTZ,
search video on Pocket PC device

Yes

Yes

Yes

Yes

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Yes

Backup Viewer: Play video saved in
the DVR proprietary format

Yes

Yes

Yes

Yes

Yes

Yes